

# **Burundi National Reports for the 12th WMO/UNEP Ozone Research Managers Meeting Geneva, Switzerland, 24 - 26 April 2023**

## Content Guidelines

The following headings are suggested. The recommended length of the report is 1-6 pages.

### **1. OBSERVATIONAL ACTIVITIES**

1.1 Column measurements of ozone and other gases/variables relevant to ozone loss (e.g., Dobson, Brewer, DOAS, FT-IR, Satellite; also include any measurements of meteorological parameters that are critical to the interpretation of your ozone and ozone-relevant data)

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1.2 Profile measurements of ozone and other gases/variables relevant to ozone loss

(e.g. Satellite, OMI, aircraft, ozonesondes, ozone lidar etc; also include any measurements of meteorological parameters that are critical to the interpretation of your ozone and ozone-relevant data)

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1.3 UV measurements

(e.g., broadband, narrowband, Spectroradiometers, etc)

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1.4 Measurements of substances controlled under the Montreal Protocol

(e.g., flask measurements, high-frequency measurements)

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1.5 Calibration activities

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### **2. RESULTS FROM OBSERVATIONS AND ANALYSIS**

(e.g., trend analyses, UV doses (annual, monthly etc.), UV maps)

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### **3. THEORY, MODELLING, AND OTHER OZONE RELATED RESEARCH**

(e.g., 3-D CTM modelling, data assimilation, use of satellite data, UV effect studies)

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### **4. DISSEMINATION OF RESULTS**

4.1 Data reporting

(e.g., submission of data to the WOUDC and other data centres)

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4.2 Information to the public (e.g., UV forecasts)

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4.3 Relevant scientific papers

## 5. PROJECTS, COLLABORATION, TWINNING AND CAPACITY BUILDING

(e.g., national projects, international projects, other collaboration (nationally, internationally))

National project : **Systematic observations of the vertical and horizontal profile of the ozone layer and other gases above Bujumbura-Burundi**

In Burundi, the Centre de Recherche en sciences mathématiques et physiques (CRMP) is in collaboration with the Office Burundais pour la Protection de l'Environnement (OBPE).

Internationally, the CRMP is closely in collaboration with the Institut Royal Météorologique de Belgique (IRM) on the installation of an ozonesondes station in Bujumbura since 2018.

Unfortunately, until now, we have not been able to find a local supplier of hydrogen or helium gas to inflate the balloons. While waiting for this local supplier, the CRMP has already set up a hydrogen production project and is awaiting funding for this project from the Government or technical and financial partners.

## 6. IMPLEMENTATION OF THE RECOMMENDATIONS OF THE 11th OZONE RESEARCH MANAGERS MEETING

(e.g., specifics on progress towards such implementation, difficulties encountered, near-term plans, etc.)

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**Burundi partie did not participate in the 11<sup>th</sup> Ozone research managers meeting.**

## 7. FUTURE PLANS

(e.g., new stations, upcoming projects, instrument development)

**New station of measures of atmospheric composition equipped with Pandora spectrophotometer.**

**The financing proposal has been submitted to the Ozone Secretariat as request for financing the purchase of this equipment.**

## 8. NEEDS AND RECOMMENDATIONS

**The Burundian Partie expresses its strong need for funding research on the protection of the ozone layer and related activities.**